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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/590,312	06/15/2007	Naoki Urushihata	060625	8152	
23850 KRATZ OUII	7590 12/11/2009 NTOS & HANSON, LLF	EXAMINER			
1420 K Street, N.W. Suite 400 WASHINGTON, DC 20005			NATNITHITHADHA, NAVIN		
			ART UNIT	PAPER NUMBER	
	,		3735		
			MAIL DATE	DELIVERY MODE	
			12/11/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/590,312	URUSHIHATA ET AL.	
Examiner	Art Unit	
NAVIN NATNITHITHADHA	3735	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SE WHICHEVER IS LONGER, FROM THE MAILING DATE O Extensions of time may be available under the provisions of 37 CFR 1.136(a). In after SIx (b) MONTH's from the mailing date of the communication. Failure to reply within the set or extended period for reply will, by stable, cause it Any reply received by the Office later than three months after the mailing date of earned patter them adjustment. See 37 CFR 1.740(b).	F THIS COMMUNICATION. no event, however, may a reply be timely filed and will expire SIX (6) MONTHS from the mailing date of this communication. he application to become ABANDONED (35 U.S.C. § 133).
Status	
Responsive to communication(s) filed on <u>28 Decemb</u> 2a) This action is FINAL. 2b) This action action 3) Since this application is in condition for allowance exclosed in accordance with the practice under Ex parts.	n is non-final. cept for formal matters, prosecution as to the merits is
Disposition of Claims	
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn fron 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 3-12 is/are rejected. 7) ☐ Claim(s) 3-12 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election	
Application Papers	
9)☐ The specification is objected to by the Examiner. 10)☒ The drawing(s) filed on <u>23 August 2006</u> is/are: a)☒ a Applicant may not request that any objection to the drawing Replacement drawing sheet(s) including the correction is re 11)☐ The oath or declaration is objected to by the Examine	g(s) be held in abeyance. See 37 CFR 1.85(a). equired if the drawing(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	
Acknowledgment is made of a claim for foreign priority a) All b) Some * c) None of: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have application from the International Bureau (PCT * See the attached detailed Office action for a list of the	been received. been received in Application No cuments have been received in this National Stage Rule 17.2(a)).
Attachment(s)	
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (FTO/SB/08)

Paper No(s)/Mail Date 20060823, 20071228.

5) Notice of Informal Patent Application

6) Other: ____

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DETAILED ACTION

Response to Preliminary Amendment

 According to the Amendment, filed 23 August 2006, the status of the claims is as follows:

Claims 3-5 are currently amended;

Claims 1, 2 are as originally filed; and

Claims 6-12 are new.

Claim Objections

2. Claims 3-12 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Applicant is reminded that the dependent claims must be non-distinct or obvious variants of the original claims 1 and 2.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

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applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

 Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Burch et al, U.S. Patent No. 7,255,677 B2 ("Burch").

Claims 1 and 2: Burch teaches the following:

Claim 1 (original): A diagnostic sensor (see Abstract, col. 1, II. 18-25, and fig. 8) comprising:

detecting means 802 ("sensor array 802") for detecting any of various pathogens existing in a part of a living body and/or body fluid of the living body or a gas emitted from the living body, or an antigen or ligand corresponding to abnormality or disease ("The disease can be detected by identifying certain "chemical signatures" or "smellprints". These "smellprints" can be a mixture of marker gases from pathogens and off-gases resulting from chemical changes produced by the disease process or condition, the immune system response to a disease or condition, or from the response to therapeutic treatment", see col. 9, II. 36-50; also see col. 10, II. 17-29; and also see col. 11. II. 19-45); and

signal generating means for generating a signal when the detecting means detects any of the pathogens, antigen, or ligand (see col. 10, II. 31-59).

Claim 2 (original): The diagnostic sensor according to claim 1, wherein the detecting means is formed by applying or attaching an antibody or protein on or near an integrated circuit formed on a semiconductor substrate, a part to which the antibody or protein is applied or attached and the integrated circuit are electrically connected to

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each other via a conductor, the signal generating means is formed in the integrated circuit, and when a surface acoustic wave current which is generated when the antibody and the antigen bind to each other or the protein and the ligand bind to each other is transmitted via the conductor to the integrated circuit, a signal corresponding to the surface acoustic wave current is transmitted to the outside of the integrated circuit (See col. 7, I. 56, to col. 8, I. 14).

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The other patents cited in the PTO-892 teach subject matter related to the Applicant's claims. The Examiner suggests reviewing these patents before responding to the present Office Action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAVIN NATNITHITHADHA whose telephone number is (571)272-4732. The examiner can normally be reached on Monday-Friday, 9:00 am -5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor, II can be reached on (571) 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Navin Natnithithadha/ Patent Examiner, Art Unit 3735 12/07/2009